Assignment 1

INF 5750 – Open Source Software development – autumn 2007

Technologies involved

Use of Subversion and Maven.

Overview

This assignment will test and give you basic knowledge and hands-on experience with Subversion, Maven, and Eclipse.

Description

1. Log into your account at hisp.info using <username>@login.hisp.info. An account with your UIO username and the password *inf5750* has been created for you.
2. Change your password to something personal by executing the *passwd* command.
3. Create, in your account, a repository called inf5750. This is where you will keep your assignments.
4. Check out a working copy from your newly created repository to wherever you like, e.g. to a directory on your IFI account or to your laptop.
5. Create a directory within the working copy called assignment1-<username>.
6. In this directory, create a Maven project descriptor file (pom.xml) by hand. I.e. do not use the archetype:create Maven command.
7. Build project files for Eclipse using Maven.
8. Import your project into Eclipse.
9. In Eclipse, go to "Create Source Folder" and create the following directories: src/main/java, src/main/resources.
10. Put all files under version control and commit them to your repository.
11. In Eclipse, create a package called no.uio.inf5750.assignment1.<username> in src/main/java.
12. Create a Java class *HelloWorld.java* in this package. This class must have a main method that prints "Hello World!" to stdout.
13. Add manifest information (see below) to the project descriptor file so that Java can find the main class.
14. Build the project with Maven, run the *JAR* file from the command line and verify that it works.
15. Put the newly created files under version control and commit the changes to your repository.
16. When you're done, send a mail to your group teacher with the subject "<username> - Assignment 1". Do not send us the source code; we will check it out from your repository.

Hints

- Repeat the lecture slides and read the first chapter of the SVN book!

- To get Maven to create the desired manifest file, add the following code to the pom.xml file:

```xml
<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-jar-plugin</artifactId>
      <configuration>
        <archive>
          <manifest>
            <mainClass>
              no.uio.inf5750.assignment1.<username>.<className>
            </mainClass>
          </manifest>
        </archive>
      </configuration>
    </plugin>
  </plugins>
</build>
```